

## BIBLIOGRAPHICAL RECORD.

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Corrections of errors and notices of omissions are solicited.

- Coquillett, Daniel W:** Description of the larva of *teras permutana*. (Papilio, 19 Feb. 1881, no. 2, v. 1, p. 30.) H: E. (2311)
- Coquillett, Daniel W:** On the early stages of some moths. (Papilio, 15 [20] Jan. 1881, no. 1, v. 1, p. 6-8.)  
Describes larvae of *apateia americana*, *a. lobeliae*, *a. falcula*, *a. superans*, *arctia virguncula*, *catocala fratercula*, *c. amica*, *mamestra trifolii*, *eustrotia carneola*, *pyrrhia angulata*, *tarache erastroides*. H: E. (2312)
- Edwards, H:** Descriptions of two new species of *lithosidae*. (Papilio, 15 [20] Jan. 1881, no. 1, v. 1, p. 12.)  
Describes *nola anfracta* (California), and *crocota ostenta* (Arizona). H: E. (2313)
- Edwards, H:** New genera and species of North American *noctuidae*. (Papilio, 19 Feb. 1881, no. 2, v. 1, p. 19.)  
Describes new genera *euros* and *oribates*, and the following 22 new species and varieties: *euros proprinus* (Cal.), *hygranthocia zwalsinghami* (Oreg.), *adonisea pulchripennis* var. *languida* (Cal.), *melicteptria belladonna* (Utah), *m. elaborata* (Col.), *m. perminuta* (Cal.), *oribates muirii* (Cal.), *o. limbatus* (Mazatlan), *annaphila aurantiaca* (Cal.), *a. pustulata* (Ariz.), *tarache sedata* (Ariz.), *fruvia acerba* (Cal.), *f. accepta* ♂ ♀ (Fla.), *litocala sexsignata* var. *deserta* (Col., Ariz.), *syneda seposita* (Col.), *s. hastingsi* var. *perpollida* (Cal.), *s. adumbrata* var. *saxea* (Cal.), *melipotis tenella* ♂ ♀ (Tex.), *synedoida sabulosa* (Col.), *s. inepta* (Col.), *s. morbosa* (Col., etc.), *homoptera rubi* (Cal.). Re-names *annaphila arvalis*, calling it *a. salicis*, owing to preoccupation of the name *arvalis* in the allied genus *axenus*. H: E. (2314)
- Edwards, H:** On two new forms of the genus *parnassius*. (Papilio, 15 [20] Jan. 1881, no. 1, v. 1, p. 2-4.)  
Describes *parnassius thor* n. sp., from Yukon River, Alaska, and *p. hermodur* n. var. of *p. sminthus*, from Colorado. Compares *p. thor* with *p. eversmanni*, and *p. hermodur* with *p. corybas*. H: E. (2315)
- Edwards, W: H:** Capture of *diadema bolina*, Linn. in Florida. (Papilio, 19 Feb. 1881, no. 2, v. 1, p. 30.)  
Notifies the capture of *d. bolina* for the first time in the United States. Mentions also the capture of *pietris ilaire*, *callidryas agarithe*, *lycaena cassius* and *l. ammon* at Indian River, Fla. H: E. (2316)
- Goodell, Lafayette** Washington. On the larvae of two noctuids. (Papilio, 19 Feb. 1881, no. 2, v. 1, p. 15.)  
Describes the larvae of *charadra propinquilinea* and *mamestra assimilis*, giving notes of food plants. H: E. (2317)
- Grote, A:** Radcliffe. Description of four new species of moths. (Papilio, 15 [20] Jan. 1881, no. 1, v. 1, p. 4.)  
Describes *scepsis edwardsii* (Fla.), *parasa fraterna* (N. Y.), *mamestra sutrina* (Col.), *catocala dulciola*, (Ohio). H: E. (2318)
- Hagen, Hermann August.** The Hessian fly not imported from Europe. (Can. entom., Oct. 1880, v. 12, p. 197-207.)  
Abstract. (Can. entom., Sept. 1880, v. 12, p. 171.)  
Considers that the so-called "Hessian fly" [*cecidomyia destructor*] in the United States was not imported from Europe: conclusions are "1. That it is impossible that the fly could have been imported by Hessian troops; 2. That it is very probable that the fly was here before the [Revolutionary] war; 3. That the fly was not known to exist in Germany before 1857." G: D. (2319)
- Hagen, Hermann August.** On some insect deformities. (Mem. Mus. compar. zoology, v. 2, no. 9.) Cambridge, March 1876. t.-p. cover, 23 p., 1 pl., 30×21, t 21×12.5.  
Treats of several perfect insects with larval head, of precocious development of the larva of *bombyx mori* directly into the imago, and of deformity of the elytra in *strategus (geotrufes) julianus* and in *prionus coriarius*. G: D. (2320)
- Harrington, W:** Hague. Entomology for beginners. Some fuugi-eaters. (Can. entom., Dec. 1880, v. 12, p. 258-262.)  
Notes on *megalodacne heros*, *bolitotherus cornutus*, *diaperis hydri*, *hoplocephala bicornis*, *mycetophagus punctatus*, *triplax thoracica*, *penthe pimelia* and *p. obliquata*; notes on larvae of some of the species. G: D. (2321)
- Harvey, F. L.** Voraciousness of *chordeiles popetue* Baird. (Amer. nat., Dec. 1880, v. 14, p. 896.)  
Found over 600 insects in the crop of a night hawk (*c. popetue* [= *c. virginianus*]); recommends encouraging this bird as an insect-destroyer. G: D. (2322)

**Hemmerling, Hermann.** Ueber die Hautfarbe der Insecten. Inaugural-Dissertation . . . Bonn, 1878. 27 p., 21.5×14, t 16×9.

Literature used in preparing the dissertation (19 titles); coloration of vertebrates; structure of the external covering of insects; the colors of the external covering and the different modes by which the coloration can be produced; special studies on the coloration of the *rhynchophora*; colors of other groups of animals, which are produced by similar skin-secretions.

G: D. (2323)

**Howard, Leland O.** Two new species of *eupelmus*, with remarks upon *e. (anti-gaster) mirabilis*, Walsh. (Can. entom., Oct. 1880, v. 12, p. 207-210.)

Describes *e. redurii*, reared from eggs of *redurivus novenarius*, and *e. floridanus*, parasitic on a tineid larva from Florida.

G: D. (2324)

**Insect-destroying fungi.** (Amer. nat., Jan. 1881, v. 15, p. 52-53.)

Rev. and abstract of A. Giard's "Deux espèces d'entomophthora nouvelles" . . . [Rec., 1856].

G: D. (2325)

**Insect enemies of the rice plant.** (Amer. nat., Feb. 1881, v. 15, p. 148-149.)

Notes on larvae of *cholepus trachypterus*, *spalacopsis suffusa* (?), *centrinus concinnus*, and *cecidomyia oryzae*, which injure rice [*oryza*].

G: D. (2326)

**Jewett, H: S.** Notes on lepidoptera. (Can. entom., Nov. 1880, v. 12, p. 228-231.)

Notes on larvae of *euchaetes collaris*, and *e. egle*. Food plants of a few other lepidopterous larvae.

G: D. (2327)

**K[atter], F.** Ueber die Lebensweise von *silpha opaca*. (Entom. Nachrichten, 1 Feb. 1881, jahrg. 7, p. 52.)

Larva and imago eat vegetable matter.

G: D. (2328)

**Liegel, Hermann.** Ueber den Ausstülpungs-Apparat von *malachius* und verwandten Formen. Inaugural-Dissertation . . . Göttingen. Hannover [n. d., ! since 1858]. 31 p., 1 pl., 21×15, t 16×10.

Anatomy of the evaginatable appendages of *malachius* and allied genera, based on study of *m. aeneus*, *anthocomus fasciatus* [corr.] and *cantharis fusca*. The evaginatable appendages of *m. aeneus* (figured) are evaginated by filling with fluid from the body-cavity and retracted by muscles.

G: D. (2329)

**Lintner, Joseph Albert.** The "army worm" invasion of northern New York. (St. Lawrence republican . . . [Ogdensburg, N. Y.], 8 June 1881, v. 51, no. 31, p. [1], col. 7-9. 198 cm.)

Account of the ravages of the "grass-cutter," *nephelodes violans*, in northern N. Y., in May 1881; habits, ravages and parasites of, and means against the true "army-worm," *leucania unipuncta*; notice of previous accounts of the *nephelodes*.

B: P. M. (2330)

**List of the butterflies found at Potsdam, N. Y. (A).** (Can. entom., Feb. 1881, v. 13, p. 40.)

Enumerates 20 species, with brief notes.

G: D. (2331)

**Mangerel, Maxime.** La chasse aux coléoptères en automne. (Feuille des jeunes naturalistes, 1 Nov. 1880, an. 11, p. 14-15.)

Recommends collecting coleoptera in autumn by the umbrella process, on wood piles and dead wood.

G: D. (2332)

**Meehan, T:** Bees and flowers. (Bull. Torrey bot. club, June 1880, v. 7, p. 66, 10 cm.)

Records the perforation of the spurs of *aquilegia* by humble-bees (*bombus*).

G: D. (2333)

**Meehan, T:** Fertilization of *aquilegia*. (Amer. nat., Feb. 1881, v. 15, p. 134-135.)

Thinks pollen-hunting insects fertilize *aquilegia*.

G: D. (2334)

**Mik, Josef.** Ueber das Präpariren der Dipteren. (Verhandl. der k.-k. zool.-bot. Gesells. in Wien, jahrg. 1880, bd. 30, p. 359-378.)

Separate, Wien, 1880. 20 p. [p. 359-378], 23×15, t 17×10.5.

Notice. (Zool. Anzeiger, 13 Dec. 1880, jahrg. 3, p. 601.)

General direction how to collect and prepare diptera; principal points are, the middle dorsal line must remain perfect, diptera must not be killed with alcohol, killing with potassic cyanide [KCN] not recommended, very small diptera should not be killed when they cannot be pinned immediately, too much material should not be collected in the net at one time, hairy diptera (such as *bombyliidae*) should not be taken in the hand to pin, lacquered iron needles or lacquered iron wire to be used for pinning instead of common pins or silver wire (which contain copper, and are therefore liable to corrode), never use too large pins, use wire for all diptera under 3 mm. long, never pin in an unpaired part of an insect, never pin minute diptera in the dorsal side, but pin them in the mesosternum between the middle and hind thigh of the left side, diptera should not be glued upon paper or imbedded in resin, and should not have their wings spread; hints on labelling diptera, on pinning them in boxes, and on packing them to send; descriptions of different apparatus convenient in collecting diptera.

G: D. (2335)

[Mixture of carbolic acid and olive oil for mosquito-bites.] ("Southern clinic.") (New remedies, Feb. 1879, v. 8, p. 63, 2 cm.) (Psyche advertiser, March 1879, p. 7.)

Germ. tr. (Entom. Nachrichten, 1 July 1879, jahrg. 5, p. 176.)

G: D. (2336)

**Molin, Rafael.** Das Leben und die rationelle Zucht der Honigbiene . . . [Rec., 2039].

Rev., by Sauppe, under title "Von Köln." (Deutsch. Bienenfreund, 1 Feb. 1881, jahrg. 17, p. 45-46.)

G: D. (2337)